

HARDWARE ERRATA REPORT

P/N PBA-B-01

phyFLEX Baseboard

Revision A1, 14 February 2014

Errata ID	Errata Title	Affected PCB No.
01	Incorrect SPI signal routing to the WiFi module connector	1364.3 and 1364.4
02	USB HUB TUSB8040 held in programming mode	1364.3 and 1364.4

E01: Incorrect SPI signal routing to the WiFi module connector

Affected PCB: 1364.3 and 1364.4

Errata Impact: The i.MX6 fails to boot from SPI NOR Flash when the WiFi module (PCM-958) is connected.

Errata Description: The Baseboard routes SPI0 signals to the WiFi module connector X58. When the WiFi module (PCM-958) is connected to the Baseboard the SPI0 signal voltage lowers. Since the SPI0 signals are connected to the i.MX6 SOM on-board SPI Flash the board will fail to boot from SPI Flash.

Workaround: Hardware rework is required to disconnect the SPI0 signals from being routed to the WiFi module. On the Baseboard cut the SPI pin headers 1, 3, 5, and 20 at X58. Figure 1 below shows which pins must be cut before inserting the WiFi module.

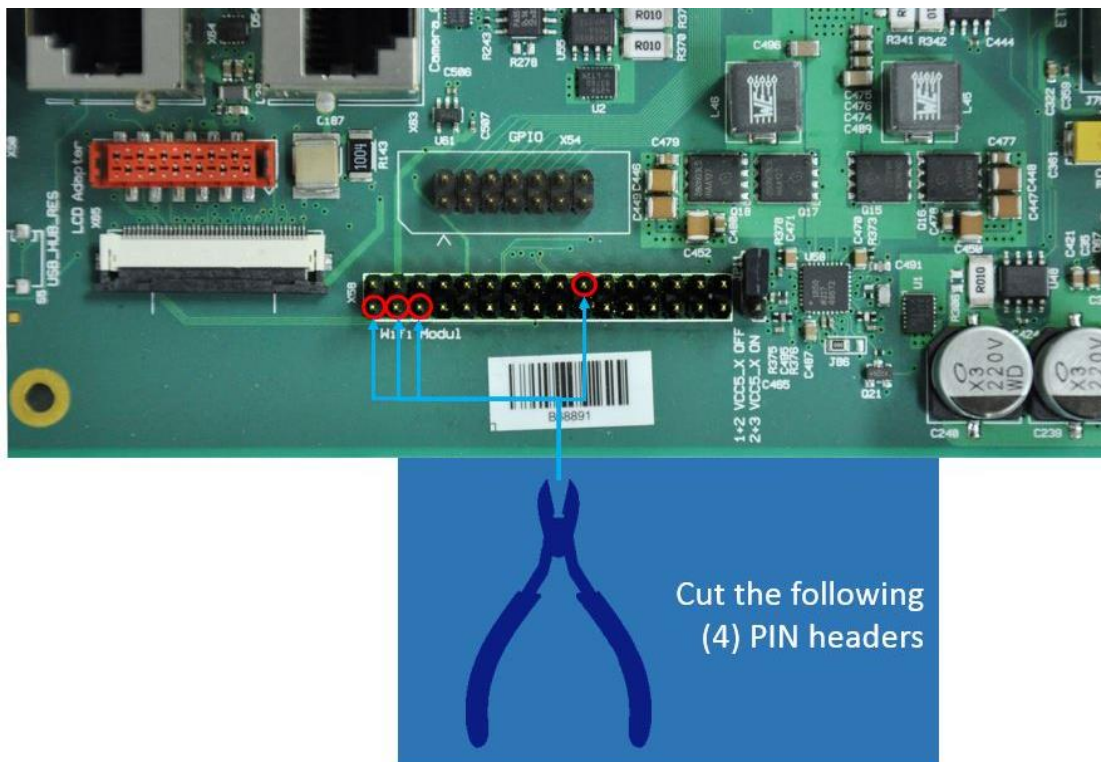


Figure 1: Errata 01 Rework

Errata Fix: Planned for Q2 2014

E02: USB HUB TUSB8040 held in programming mode

Affected PCB: 1364.3 and 1364.4

Errata Impact: USB devices plugged into X45 fail to be recognized by the i.MX6.

Errata Description: The pull-up resistors connected to the serial clock terminal (SCL_SMBCLK) and serial data terminal (SDA_SMBDAT) on the TUSB8040 USB Hub indicate that an I2C EEPROM is connected. However, because the EEPROM on the baseboard is empty the TUSB8040 will go into and stay in programming mode. This results in the TUSB8040 reporting as a programming end point to the USB Host controller and not being able to recognize the connection of USB devices.

Workaround: Set the TUSB8040 to indicate that an EEPROM is not connected by removing the pull-up resistors on the SCL_SMBCLK and SDA_SMBDAT signals. To do so, perform hardware rework to remove J34 and J35 solder jumpers on the baseboard. Figure 2 below shows which resistors must be removed.

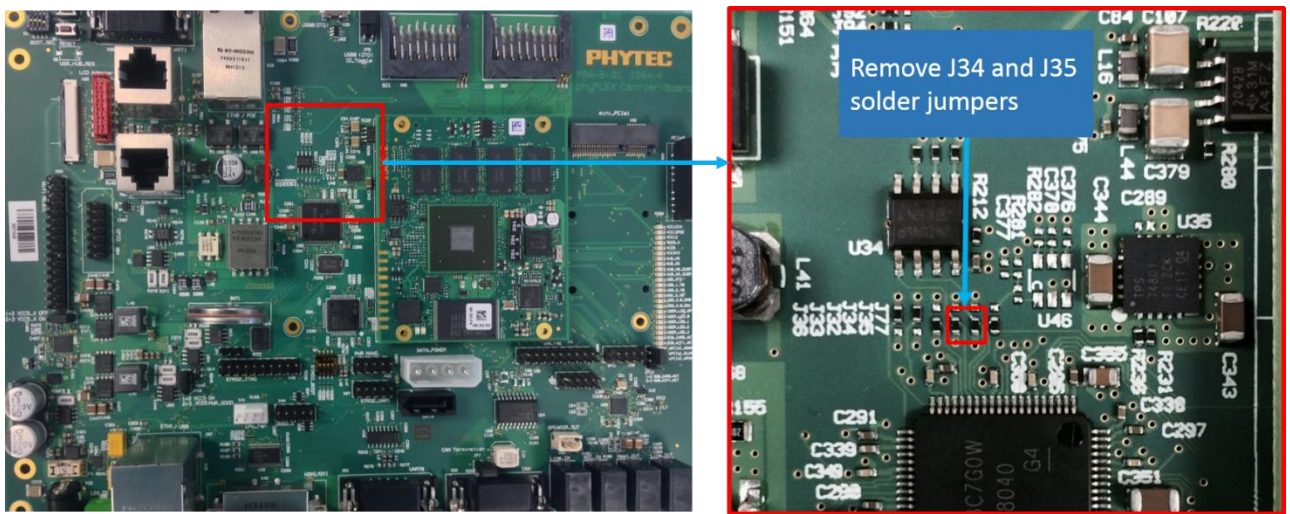


Figure 2: Errata 02 Rework

Errata Fix: 1364.5